



## KERALA STATE ELECTRICITY BOARD Ltd

(Incorporated under the Companies Act, 1956)

Registered Office: Vidyuthi Bhavanam, Pattom,

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### ABSTRACT

Construction of 20km of 220/110kV MC/DC Line from 220kV Substation Kattakkada to 220 kV GIS Vizhinjam through Balaramapuram and 220kV VISL Substations and its connected bays at 220kV Substation Kattakkada and other related works for supplying power to Vizhinjam International Seaport Limited on work deposit basis - Revised Administrative Sanction accorded – Orders issued

### Corporate Office (SBU-T)

BO (DB)No.449/2023(D(T,SO&P)/T2/VISL/2023-24)

Thiruvananthapuram,Dated: 16.10.2023

- Read: 1. B.O. (FB) No.1720/2008 (TPC3/36/2007) dated 09.07.2008.  
2. B.O. (FB) No.2702/2008 (TPC3/28/2008) dated 05.11.2008.  
3. B.O. (FB) No.656/2011 (TPC4/34/2010) dated 01.03.2011.  
4. Note No. CETS-AE4/2022/981(3) dated 11.09.2023 of the Chief Engineer(Transmission-South).  
5. Note No. D(T,SO,P&S)/T2/VISL/2022-23 dated 29.09.2023 of the Chairman & Managing Director.  
6. Proceedings of the 73rd meeting of the Board of Directors held on 30.09.2023 (Agenda Item No. OA 03-09/2023).

### ORDER

Administrative Sanction for Rs.36.05 crore was accorded as per the B.O read as 1<sup>st</sup> above, for providing power supply to M/s.Vizhinjam International Seaport Limited (VISL) on work deposit basis. The work involved were as follows:

PART A: Construction of 2 Nos. of 220kV outgoing bays at Kattakkada Substation and 2 Nos. of 220kV incoming bays at Vizhinjam Substation.

PART B: Construction of 20 km 220kV double circuit line from 220kV Substation, Kattakada to Vizhinjam using ACSR Kundah conductor.

PART C: Construction of 2 Nos. of 220kV outgoing bays and 1 No. bus coupler bay at Vizhinjam Substation.

The scope of work, as per the MOU signed between VISL and KSEBL on 14.02.2011 for providing power to M/s.Vizhinjam International Seaport Limited, included construction of EHT lines and connected bay arrangements for the evacuation of 5 MW power during construction of port and 35 MW and 75 MW in short term (first 5 years of operation) and long term (beyond 5 years of operation) respectively. The work was proposed to be carried out in two phases as detailed below.

#### Phase I: (for 5 MW power during construction phase)

(i) Replacing the existing 20.2 km single circuit MINK conductor with high size DOG conductor in the existing 66kV TVT feeder from Paruthippra to Neyyattinkara and 9km Vizhinjam tap line.

(ii) Providing 2 Nos. of 11kV feeder outlets at 66kV Substation, Vizhinjam.

(iii) Supplying and laying 5 km of 11 kV 3x300 Sq.mm XLPE UG cable double run from 66 kV Substation, Vizhinjam to Vizhinjam International Seaport Limited.

Phase II: (for 35 MW and 75 MW power at 220kV level – short term & long term in 220kV level)

(i) Construction of 20 km 220kV DC line from Kattakkada to the proposed 220kV Substation at VISL.

(ii) Construction of 2 Nos 220kV feeder bays at 220kV Substation, Kattakkada.

(iii) Providing line bays at 220kV Substation, VISL for metering and control.

Meanwhile, Board decided to upgrade the 66kV TVT DC feeder from Paruthippra to Parassala to 110 kV using Wolf conductor along with upgradation of three 66kV substations viz. Neyyattinkara, Balaramapuram and Vattiyoorkavu to 110kV and upgrading 66kV Substation, Vizhinjam to 220kV GIS. Also, instead of arranging 11kV supply from Vizhinjam substation, the same was proposed to be arranged from 33kV substation, Poovar by enhancing the capacity of Poovar substation. The capacity enhancement work was carried out by the Transmission wing and the 11kV supply to VISL was provided by the Distribution wing. Hence, all works included in Phase I was modified.

Sanction was accorded as per B.O read as 2<sup>nd</sup> above, to construct 66kV Substation at Balaramapuram in 110kV parameters feeding from 66kV Thirumala – Neyyattinkara TVT 1 & 2 feeders. As this line had reached its full capacity and interruptions occurred frequently in Vizhinjam and Neyyattinkara Substations due to its ageing, it was decided to feed the Balaramapuram Substation from 220kV Substation, Kattakkada. It was proposed to draw 110kV & 220kV lines through the same RoW on Multi Circuit towers from Kattakkada to Balaramapuram, in order to avoid objections from public that may arise while drawing these lines through separate RoWs.

Out of the 20km line from Kattakkada to VISL substation, it had been proposed to construct 18km of 110kV lines in 220kV parameters on Multi Circuit towers due to RoW limitation from 220kV Substation, Kattakkada to Vizhinjam deviation point and from there as 2 circuits to Vizhinjam. Accordingly, the estimate was modified and sanction was accorded as per B.O read as 3<sup>rd</sup> above for a revised estimate amounting to Rs.59.97 Crore for the construction of 20km 110kV DC lines in 220kV parameters on Multi Circuit towers from 220kV Substation, Kattakkada to Vizhinjam through the proposed substation at Balaramapuram. M/s. VISL had deposited an amount of Rs.50.99 Crore as work deposit amount.

Various court cases related to land compensation and delay in getting railway sanction for stringing 172m of EHT line over the railway track delayed the work. The 220kV line from Kattakkada to VISL was test charged on 29.09.2021 and the 220kV Substation, VISL was energized on 04.05.2022.

Total expenditure incurred for the construction of 20 km 110 kV DC line in 220kV parameters using MC towers from Kattakada to Vizhinjam through Balaramapuram substation and other related works, including actual compensation paid and the compensation expected during the year is calculated as Rs.115,05,07,400/-.

As per the MoU, the cost of construction of 18km of line has to be shared between VISL and KSEBL and the cost towards the balance line to VISL and that for the 220kV bay arrangements at Kattakkada and VISL to be borne by VISL alone. The payment for land acquisition and compensation cases, if any, arising in future, in connection with the line construction are also to be paid by VISL. Based on this, M/s.VISL has to remit an amount of Rs.17,93,91,326/- to KSEB Ltd .

Since many land compensation cases are still pending at various courts and new cases are still being reported, the exact amount payable for compensation can be assessed only after obtaining court verdicts. Hence, claim for the share of compensation from VISL shall be made on yearly basis.

The Chief Engineer (Transmission South), as per note read as 4<sup>th</sup> above, requested sanction for the revised estimate amounting to Rs.115,05,07,400/- for the subject work, based on the actual expenditure incurred, excluding the pending land compensation cases to be settled and also to execute an agreement/undertaking with VISL stating that 50% of the land compensation amount against the pending cases shall be refunded to KSEBL within one month from the date of raising claim in each financial year.

The abstracts of the revised estimate, actual expenditure of the entire work and balance amount to be remitted by VISL are attached as Annexures.

The matter was placed before the Board of Directors for sanction as per note read as 5<sup>th</sup> above. Having considered the matter in detail, the Board of Directors in the meeting held on 30.09.2023 passed the following resolution:

**RESOLVED TO** accord revised administrative sanction for an estimate amounting to Rs.115,05,07,400/- (Rupees One Hundred and Fifteen Crore Five Lakh Seven Thousand Four Hundred Only) for the work of "Construction of 20km 220/110 kV MC/DC line from 220kV Substation, Kattakkada to Vizhinjam through 110kV Substation, Balaramapuram and connected bay arrangements at 220kV Substation, Kattakada and other related works" for providing power supply to Vizhinjam International Sea Port Ltd. on work deposit basis, excluding pending compensation cases.

**RESOLVED TO** accord sanction to execute an Agreement/Undertaking with M/s VISL stating that the eligible compensation for Right of Way as per MoU dated 14.02.2011 between MD & CEO, Vizhinjam International Sea Port Limited and Chairman & Managing Director, KSEBL in each financial year shall be refunded to KSEBL within one month from the date of raising the claims (i.e. 1st April of every year).

**RESOLVED ALSO THAT** a demand for Rs.17,93,91,326/- be raised to M/s. VISL towards reimbursement of the balance amount incurred by KSEBL for the work.

Orders are issued accordingly.

**By Order of the  
Director Board**



**LEKHA G  
Company Secretary**

To:

The Chief Engineer (Transmission South)

Copy to: The Financial Adviser/ Chief Internal Auditor/ Company Secretary  
The Deputy Chief Engineer, Transmission Circle, Thiruvananthapuram  
The TAs to CMD/ Director (G-C)/ Director (D,S,SCM&IT)/ Director (T,SO&P)/  
Director (G-E,REES,SOURA,S&W)/ PA to Director (Finance & HRM)

The Senior CA to Secretary (Administration)  
Stock File

Forwarded / By Order

A handwritten signature in black ink, appearing to be 'V. J. ...', written over the printed text 'Forwarded / By Order'.

Assistant Executive Engineer

<b>ABSTRACT OF THE ACTUAL EXPENDITURE OF THE ENTIRE WORK AND BALANCE AMOUNT TO BE REMITTED BY VISL</b>			
Sl.No.	Particulars	Actual Expenditure of the entire work (Rs.Ps)	Actual Expenditure (VISL portion) (as per MoU)
<b>Part A (For Construction 5MW as per MOU)</b>			
1.	Adding 1 No. 5MVA 33/11kV KEL make Transformer at 33kV substation Poovar for giving power to the construction of VISIL substation.	3071337.09	<b>3071337.09 (As per Sanction Order No.T2(d)/104/2002-03/33kVS/s/Poovar/202 dated 24.05.2011 of the CETS)</b>
2.	Supplying & laying 3x300sqmm 2 run UG cable from poovar substation to VISIL for providing intial 5 MW supply for construction of Vizhinjam International Seaport Limited (72612664.73+11482603+8409526.73)	92504794.03	<b>92504794.03</b>
3.	Construction of 750m of 11kV OH line from Karimpallikkara transformer point (Vizhinjam Town feeder) to the proposed harbour site	430000.00	<b>430000.00</b>
4.	Expenditure for conversion of existing 1-phase connection, bearing con No. 9648 to 3 Phase connection under Electrical section Kottukal	20910.00	<b>20910.00</b>
<b>Part B ( Short Term 35MW &amp; Long Term 75MW as per MOU)</b>			
1.	Construction of 18km of 110kV DC line on 220kV parameters on MC towers from 220kV substation, Kattakada to Vizhinjam through proposed Balaramapuram (Including Compensation amount for settled	769052237.23	<b>346591648.11 (769052237/20)x18x50% (As per MoU - Part B under Clause 2.2)</b>

**ANNEXURE 2****ABSTRACT OF REVISED ESTIMATE**

Name of Work: Construction of 20km of 220/110kV MC/DC line from 220 kV kattakada to 220KV GIS Vizhinjam through 110kV Balaramapuram and 220kV VISL substation and constructing two numbers of feeder bay at 220kV substation, Kattakada and other related works for effecting power supply to Vizhinjam International Seaport Limited

<b>I Part A (For Construction 5MW as per MOU)</b>		
1	Adding 1No. 5MVA 33/11kV KEL make Transformer at 33kV substation Poovar for giving power to the construction of VISIL substation.	3,071,337.09
2	Supplying and laying 3 x 300sqmm 2 run UG cable from Poovar substation to VISIL for providing intial 5 MW supply for construction of Vizhinjam International Seaport Limited (72612664.73 +11482603+8409526.73)	92,504,794.03
3	Construction of 750m of 11kV OH line from Karimpallikkara transformer point (Vizhinjam Town feeder) to the proposed harbour site as desired by the Vizhinjam International Sea Port Ltd.	430,000.00
4	Expenditure for conversion of existing single phase connection, bearing con No. 9648 to Three Phase connection Under Electrical section Kottukal (This connection was dismantled and account closed on 10.05.2022)	20,910.00
<b>II Part B ( short term 35MW &amp; long Term Long Term 75MW as per MOU)</b>		
1	Construction of 20km of 110kV DC line on 220kV parameters on MC towers from 220kV substation, Kattakada to Vizhinjam through proposed Balaramapuram (Including Compensation amount for settled cases)	769,052,237.23
2	Construction of 2 Nos. of 220 kV feeder bay at 220 kV Substation, Kattakada	58,006,600.00
3	Tower Retesting Fee (SCM) for Z type Narrow base Tower	4,307,000.00
4	Relay Testing at GIS VISL	203,734.00
5	Line Differential relay for Kattakada & VISL End for Kattakada - VISL 220kV Feeder	2,125,500.00
6	Decree Deposit amount expected	45,284,158.84
	Total	975,006,271.19
	GST 18%	175,501,128.81
	Grand Total	1,150,507,400.00

	cases)		
	Construction of 2 km 220kV DC line from Vizhinjam Tap Point to VISL		<b>76905223.72</b> (769052237/20)x2 (As per MoU - Part B under Clause 2.2)
2.	Construction of 2 Nos. of 220 kV feeder bays at 220kV Substation, Kattakada (As per AS vide B.O. (FB) No.1720/2008 (TPC3/36/2007) dated 09.07.2008)	58006600.00	<b>58006600.00</b>
3.	Tower Retesting Fee (SCM) for Z type Narrow base Tower	4307000.00	<b>4307000.00</b>
4.	Relay Testing at GIS VISL	203734.00	<b>203734.00</b>
5.	Line Differential relay for Kattakada & VISL End for kattakada - VISL 220kV Feeder	2125500.00	<b>2125500.00</b>
6.	Decree Deposit amount expected	45284158.84	0
	Total	<b>975006271.19</b>	<b>584166746.95</b>
	GST @18%	<b>175501128.81</b>	<b>105150014.45</b>
	<b>Grant Total</b>	<b>1150507400.00</b>	<b>689316761.40</b>
	Amount remitted by VISL		<b>509925435.00</b>
	Balance amount to be remitted by VISL		<b>179391326.40</b>
(Rupees Seventeen Crore Ninety Three Lakh Ninety One Thousand Three Hundred and Twenty Six Only)			